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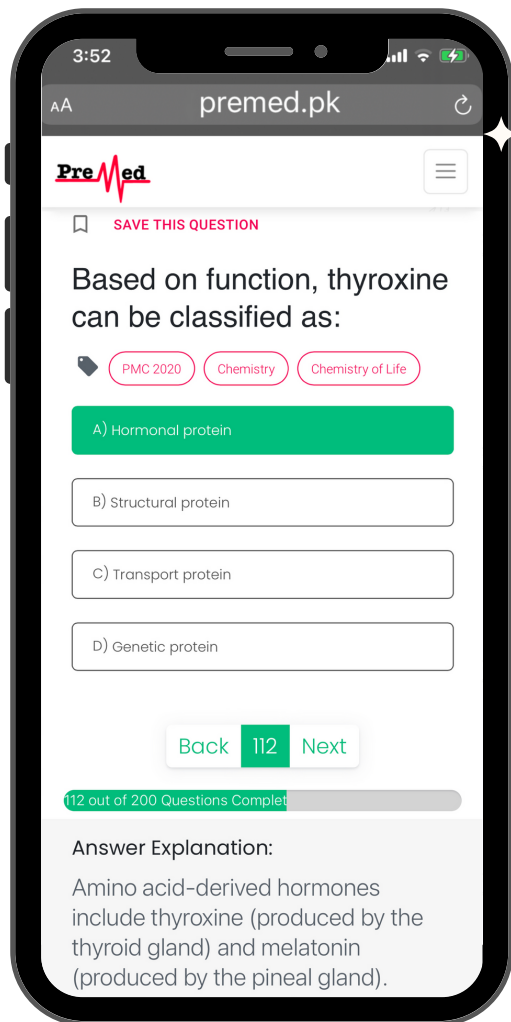
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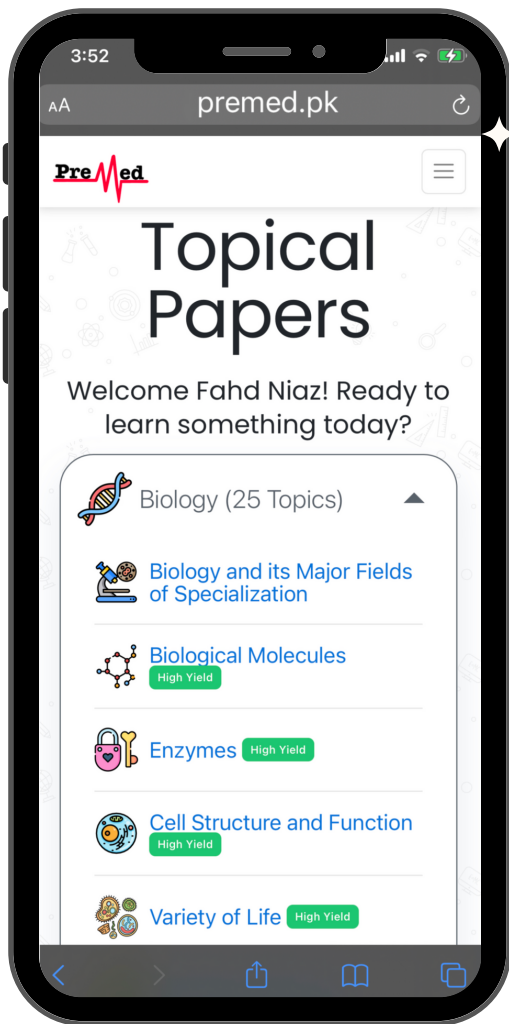


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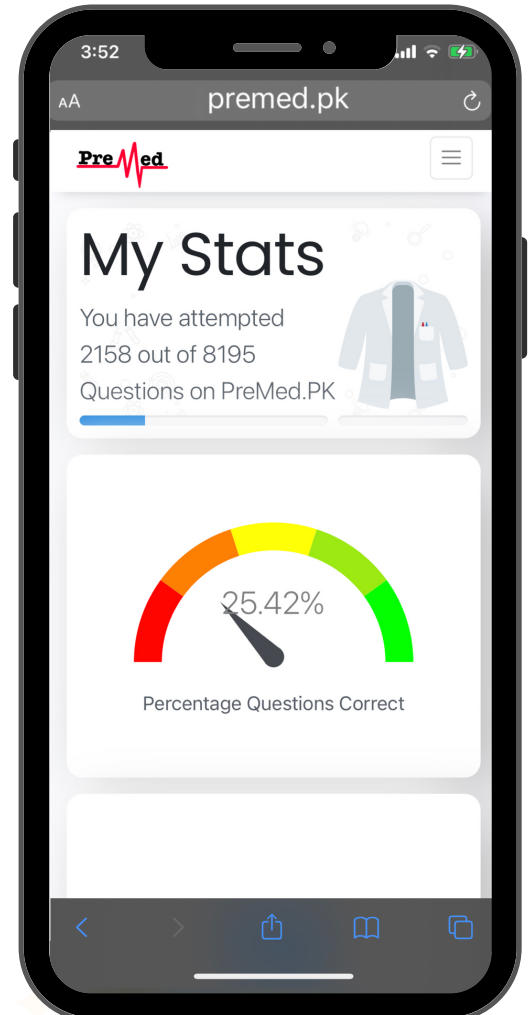


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ENGLISH

20 MCQs



S.#	Question	Answer Option (A)	Answer Option (B)	Answer Option (C)	Answer Option (D)
1	dunce	block headed	smart	wise	agile
2	genocide	murder of a family member	extermination of an entire race or nation	assassination of a king	self-destruction
3	laud	criticise	lament	praise	oppose
4	linguistics	the science and study of languages	study of geometric patterns	the science of diction and enunciation	the science of light
5	The Earth _____ (move) around the sun.	move	moving	moves	had moved
6	My friend _____ (suffer) from cholera since August.	suffer	suffered	suffering	is suffering
7	The strong earthquake _____ (shake) the city causing lots of damage.	shake	shook	shaking	will shake
8	We _____ (visit) the lake many times before, but we enjoyed ourselves the most this time.	visit	have visited	visited	had visited
9	Who told you this?	Declarative	Imperative	Interrogative	Exclamatory
10	She is a successful writer.	Declarative	Imperative	Interrogative	Exclamatory
11	It is raining cats and dogs.	Declarative	Imperative	Interrogative	Exclamatory
12	Plenty of mangoes and bananas _____ available in this season.	is	are	was	were
13	Cats and dogs _____ not get along.	does	do	did	are
14	The students accompanied by their teacher _____ gone on a picnic.	has	have	are	was
15	I work as _____ only English teacher at this school.	a	an	the	no article
16	There was _____ article about pollution in _____ paper.	a..an	an..a	a... the	a...a
17	Which of the follow quotes is correctly written?	"What's the big deal," Harry asked.	"How much for that goat?" questioned Shane.	Ethan asked, what time are we leaving.	"Where did Charlotte go," Leigh wondered.
18	Choose the correct spelling :	Amatuer	Amature	Amateur	Ameteur
19	Read carefully and choose the correct answer.	She is one of those doctors which make house calls.	She is one of those doctors who make house calls.	She is one of those doctors who makes house calls.	She is one of those doctors that makes house calls.
20	Read carefully and choose the correct answer.	Dr. Cresta is one of those professors who does whatever it takes to get his point across to his students.	Dr. Cresta is one of those professors who does whatever it takes to get their point across to their students.	Dr. Cresta is a professor who do whatever it takes to get his point across to his students.	Dr. Cresta is one of those professors who do whatever it takes to get their point across to their students.

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ENGLISH ANSWERS

1. A

2. B

3. C

4. A

5. C

6. D

7. B

8. B

9. C

10. A

11. A

12. B

13. B

14. A

15. C

16. B

17. B

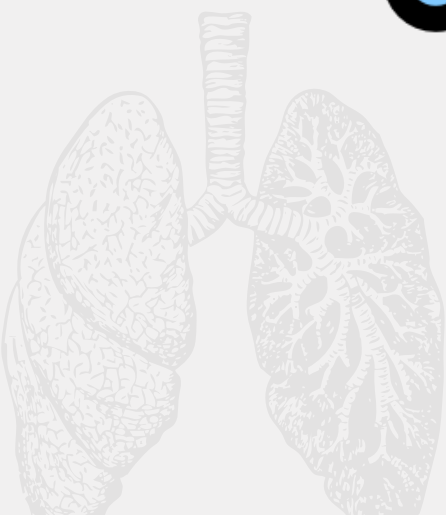
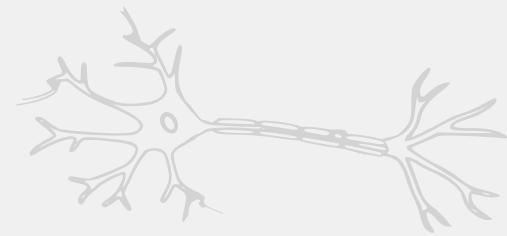
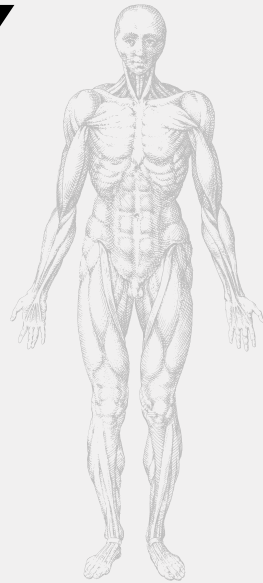
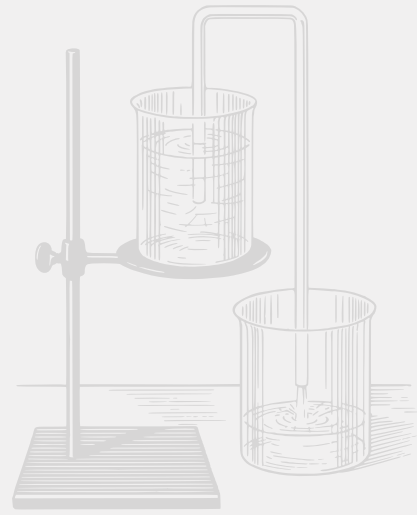
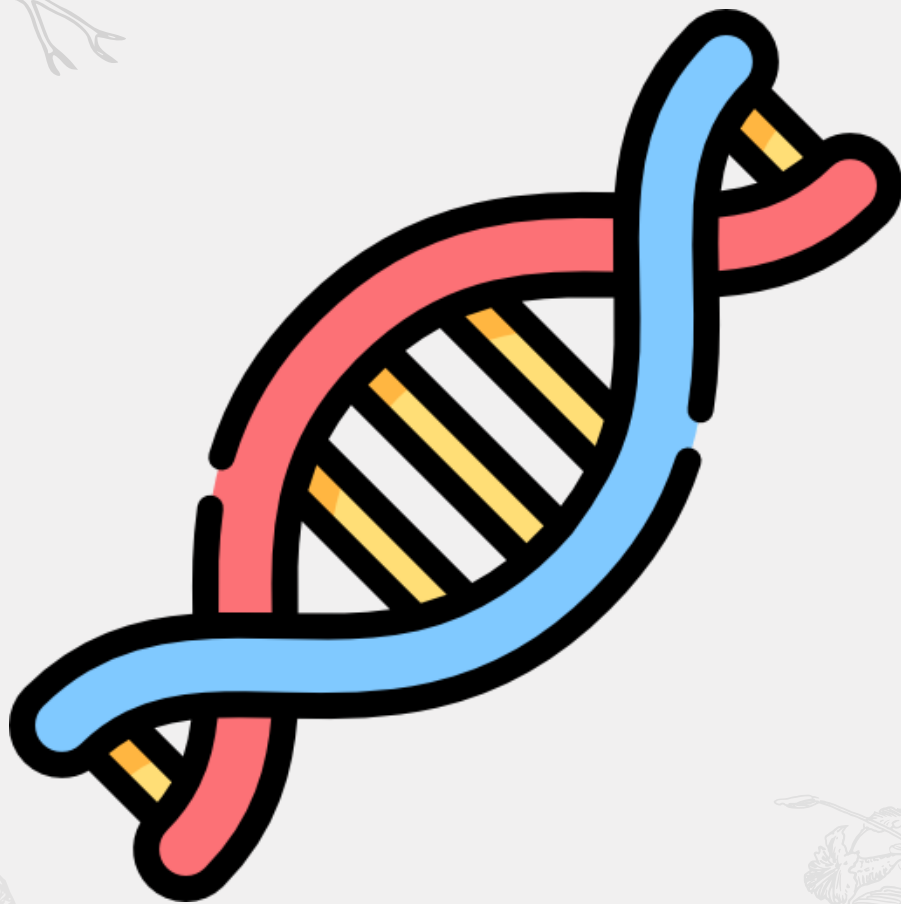
18. C

19. B

20. D

BIOLOGY

68 MCQs



S.#	Question	Answer Option (A)	Answer Option (B)	Answer Option (C)	Answer Option (D)
1	All are HIV symptoms except	sore throat, chills, fever, body aches	chills, fever, flu, muscle cramps	cardiac arrest, bloody stools, chills	rash, fatigue, mouth ulcers,
2	SIV is the abbreviation of	simian immunodeficiency virus	silurian immunodeficiency virus	siberian immunodeficiency virus	both a and c
3	Which of the following molecule facilitate the entry of HIV in human body	Glycoprotein	Liposomes	polysaccharides	lipopolysaccharides
4	The enzyme which plays important role in HIV pathogenesis	RNA polymerase I	DNA polymerase II	Reverse Transcriptase I	Reverse Transcriptase
5	All of the following are the current preventive methods of HIV infection, except?	safe and protected lifestyle	use of sterile injections and needles	use of available vaccines	safe blood transfusion methods
6	This locks the HIV genome into capsid	gag protein	env protein	env protein	all of these
7	Hans Krebs discovered ____	Glycolysis	fermentation	oxidation of pyruvate	the citric acid cycle
8	The stage of photosynthesis that actually produces sugar is ____	the calvin cycle	photosystem I	photosystem II	the light reaction
9	The G3P is end product of this process	Kreb's cycle	Calvin cycle	chemiosmosis	electron transport chain
10	Cooperation of the two photosystems of the chloroplast is required for ____	ATP synthesis	reduction of NADP	cyclic photophosphorylation	oxidation of the reaction center of photosystem I
11	Find out the correct sequence for movement of electrons during the light-dependent reaction	p68 , p7 , water, NADP	water, p7 , NADP, p68	p7 , p68 , NADP, water	water, p68 , p7 , NADP
12	Oxygen is important for aerobic cellular respiration, why?	It provides the hydrogen nuclei needed to create a proton gradient in the intermembrane space.	It is important in creating oxaloacetic acid in the Krebs cycle.	It is needed for glycolysis, which begins the process of respiration in cells.	It is the final electron acceptor in the electron transport chain.
13	The doubling of DNA material occurs in the process of ____	mitosis	meiosis	cytoplasm	nucleus
14	____ is the heaviest particulate of the cell?	Golgi apparatus	Cytoplasm	Mitochondria	Nucleus
15	Diffusion is opposite to ____	Osmosis	Effusion	Affusion	none of these
16	The 5-carbon sugar present in the heart muscle is	Lyxose	ribose	xylose	glucose
17	$\alpha(1\rightarrow4)$ glycosidic linkage is present in	Maltose	sucrose	cellulose	cellulose
18	The lipoproteins are rich in cholesterol ____	Chylomicrons	VLDL	LDL	HDL
19	The structure of plasma membrane is mainly held together by:	Proteins	Carbohydrates	Phospholipids	All of the above.
20	Ions cannot cross which part of the plasma membrane?	Phospholipid bilayer	Channel proteins	Both A and B	None of the above
21	Which interactions are responsible for the formation of lipid bilayer in the watery environment of the body?	Hydrophobic interactions between fatty acid tails.	Hydrophobic interactions between phosphate heads.	Hydrophilic interactions between fatty acid tails.	Hydrogen bonding between fatty acid tails.
22	Who came up with the term "cell"?	Schwann	Schleiden	Robert Hooke	both a and b
23	Damage to one of the following immediately kills the cell whether its prokaryotic or eukaryotic?	nucleus	cell membrane	mitochondria	all of these
24	Which part of the nervous system controls actions like walking and running?	Somatic nervous system	Parasympathetic nervous system	Sympathetic nervous system	Peripheral nervous system
25	Which of the following do not form part of the Central Nervous System (CNS)?	Brain	Spinal cord	Brain stem	Spinal nerves
26	Hindbrain includes the ____.	Medulla, pons and cerebellum.	Medulla, cerebellum and hypothalamus.	Cerebellum, medulla and brainstem.	All of the above.
27	Terminal branches of axons end in ____.	Myelin sheath	Dendrites of the next neuron	Synaptic cleft	Postsynaptic membrane
28	One of the functions of the Neuroglial cells is to protect and support which of the following?	Nephrons	Myoid cells	Neurons	none of these
29	Stretch receptors are present in the ____ of tetrapods.	Hepatic arteries	Carotid arteries	Renal arteries	Pulmonary arteries
30	One similarity between annelids and arthropods:	Closed circulatory system.	Nitrogenous waste product is uric acid.	Ventral nerve cord.	None of the above.
31	Animals like starfish have small groups of neurons in each arm connected to a ring of neurons in the centre. This type of nervous system is called ____.	Centralized nervous system	Partially centralized nervous system	Diffuse nervous system	Partially diffuse nervous system
32	Subkingdom parazoa includes:	Annelida	Cnidaria	Porifera	Protozoa
33	Flame cells in Planaria constitute the:	Digestive system	Reproductive system	Respiratory system	Excretory system
34	In the lock and key model of enzyme activity, the substrate acts as the ____.	Key	Lock	Both A and B	None of the above
35	Which type of bonds are never formed when a substrate fits into the active site of an enzyme?	Hydrogen bonds	Ionic interactions	Hydrophobic interactions	Covalent linkages
36	The number of models that represent enzyme-substrate model are?	1	2	3	4
37	Ligases help in which of the following reactions?	splitting of two molecules	oxidation of molecules	joining of molecules	both a and b
38	The energy required to start a reaction is called?	startup energy	initial energy	point energy	activation energy
39	Darwin was greatly influenced by	essay on population by Malthus	Lamarck's theory	L-Miller's evidence for origin of life	Mendel's paper on inheritance
40	Mating with non-relatives is known as?	inbreeding	outbreeding	breeding	none of these
41	The structures of the front flipper of a whale and the forearm of a wolf have similar bone structure and derive from a common ancestor. This is an example of which of the following?	convergent evolution	analogous structures	homologous structures	bottleneck effect
42	Darwin's Theory of evolution by natural selection is based on all of the following postulates except ?	some individuals are more successful in surviving and reproduction than others	individuals within a population are variable	the survival and reproduction of individuals is not random	the survival and reproduction of individuals is random
43	A population of birds encounters a dramatic event that results in a severe decrease in population size. As a result of the newly-decreased population, what type of genetic drift does this population now exhibit?	Artificial selection	Founder effect	Bottleneck effect	both a and b
44	The osmotic pressure of blood is maintained by	Membrane proteins	Fibrous proteins	Plasma proteins	Myosin
45	The number of stages involved in heart beat is	2	3	4	5
46	a fluid in transit between interstitial fluid and the blood	Synovial fluid	Semen	Amniotic fluid	Lymph
47	Which of the following is the key function of pleural cavity?	Reduces friction between membranes	Slide easily on one another	allows membrane to adhere on one another	all of these are correct
48	The pair of salivary glands located behind the jaws is called:	Sublingual gland	Submaxillary glands	parotid glands	adrenal glands
49	Which of following is not considered as basic shape of a bacterium	cocci	filamentous	spiral	bacilli
50	Streptobacillus is basically a	single cell	chain of bacilli	pairs of bacilli	All of Above
51	The arrangement of cocci is basically due to their	shapes	planes of division	binary fission	chain formation
52	The animals which involves development of embryo inside female body are called	internal fertilization	viviparous	oviparous	both a & b
53	The discharge of ovum from ovary is called	lactation	ovulation	placenta formation	menstruation
54	The highly complex duct system in male is called:	Scrotum	seminiferous tubules	Prepuce	Epididymis
55	The cells that secrete testosterone	Nerve cells	fat cells	muscle cells	interstitial cells
56	Which cells produce oögonia in ovary?	Stromal cells	Epithelial cells	Germ cells	theca cells
57	A placenta is established between the uterine and ---	foetal tissues	Bone tissues	Lymph tissues	Cardiac muscle tissue
58	The sexually transmitted disease caused by Treponema pallidum is:	Gonorrhoea	Syphilis	Genital Herpes	AIDS
59	Cartilage is a form of:	Cardiac tissue	connective tissue	epithelial tissue	nervous tissue
60	Which type of cartilage is the most abundant in human body?	Hyaline cartilage	elastic cartilage	fibrocartilage	None of these
61	The functional unit of contractile system in striated muscle is:	myofibril	cross bridges	Z band	sarcomere
62	The contractile protein of skeletal muscle involving ATPase activity is:	actin	myosin	tropoin	tropomyosin
63	Inflammation of the joint is known as	Sciatica	Arthritis	Spondylosis	Disc-slip
64	In female grasshoppers, the number of chromosomes are:	11	24	12	19
65	A woman receives his X chromosome from:	His mother only	Both her mother and her father	His father only	Extra nuclear DNA in her mother's egg

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66	The number of gene is greater than_____:	Allele	Chromosomes	Loci	None of them
67	Which of the following determines sex in human beings?	Sperm	Egg	Somatic cell	None of them
68	The Mendel factors which control the inheritance of characters are called:	Chromosomes	RNA	Genes	Centrosome



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BIOLOGY

ANSWERS

1. C

2. A

3. A

4. D

5. C

6. A

7. D

8. A

9. B

10. D

11. D

12. D

13. A

14. D

15. B

16. A

17. A

18. C

19. A

20. A

21. A

22. C

23. B

24. A

25. D

26. A

27. C

28. C

29. B

30. C

31. C

32. C

33. D

34. A

35. C

36. B

37. C

38. D

39. B

40. B

41. C

42. D

43. C

44. C

45. B

46. D

47. A

48. C

49. B

50. C

51. B

52. D

53. B

54. D

55. D

56. C

57. A

58. B

59. B

60. A

61. D

62. B

63. B

64. B

65. B

66. B

67. D

68. C

CHEMISTRY

56 MCQs



S.#	Question	Answer Option (A)	Answer Option (B)	Answer Option (C)	Answer Option (D)
1	How many times Mg atom is heavier than Carbon atom?	2 times	3 times	12 times	4 times
2	The reagent which leaves in the reaction mixture after reaction has completed is called as ___?	Limiting reactant	Excessive reagent	Consumed reagent	All of these
3	When we calculate radii of Hydrogen atom by this equation $r = .529A(n^2)$ where $n = 1, 2, 3, 4$, the distance between orbits of hydrogen atom will	decrease	increase	remains same	be constant
4	Spectrum is the visual display or _____ of component of white light when it is passed through prism	rarefaction	radiation	collection	dispersion
5	Which of the following shows Planck's quantum theory	$E=h\nu$	$E=c/v$	$E = cv$	none of these
6	A gas having volume of 1 dm ³ is enclosed in a vessel at 1 c and 2.5 atm. This gas is allowed to expand until new pressure is 2 (No Suggestions) will be new volume if the temperature is maintained at 273 k?	12dm ³	12.5dm ³	1 dm ³	12 .3dm ³
7	If a graph is plotted between pressure on x- axis and volume on y- axis for Boyle's law verification, the curve obtained is called	pseudoderm	isotherm	biotherm	all of these
8	The properties of gases, liquids and solids can be understand by	atomic theory	potential molecular theory	kinetic molecular theory	none of these
9	The forces present between the molecules are called as ?	Chemical bond	Intermolecular forces	Intra molecular forces	Strong forces
10	Which force present in a mixture of H ₂ and HCl molecules?	Dipole Dipole forces	Debye forces	London Dispersion forces	None of these
11	Which instrument is used to measure the vapour pressure of a liquid?	Barometer	Manometer	Thermometer	Sphygmometer
12	In polar solvents ionic crystals react	Slowly	fast	reacts on heating	No reaction
13	Melting point of crystalline solids are	Fixed	Variable	have a range of value	None of these
14	Lattice Points are also called	space lattice	crystal lattice	lattice sites	Lattice location
15	In an Irreversible reaction the tendency of it to go in reverse direction is	High	low	negligible	none Of these
16	Equilibrium constant has	Units	No Units	Both A and B	A negative value
17	The equilibrium Constant is always written as a ratio of	Reactants over products	Products over reactants	Product times Reactants	None of these
18	Example of fast reactions are	Neutralization	Double Decomposition Reactions	Ionic Reactions	All of these
19	Activation energy for forward and backward reactions is always	Same	Different	Reciprocal of each other	Higher for forward reaction
20	Following are slow reactions except?	Rusting of iron	Weathering of stones	Reaction between silver nitrate and sodium chloride	Fermentation of sugar
21	An enthalpy cycle used to calculate the lattice energy is	Hess Law	Carnot Cycle	Born haber Cycle	Haber's Process
22	Hess law is known as	Law of heat summation	Law of constant heat capacity	Law of mass action	Law of conservation of mass
23	Work done by the system is always	Positive	Zero	Negative	Equals to Unity
24	Standard Hydrogen Electrode is dipped into	1 molar solution of NaOH	1 molar solution of HCl	Nitric Acid	KOH
25	Standard Reduction potential is found by dipping the electrode in its own ion with molarity equals to	0.1	1	1.5	0
26	In Industry Caustic Soda is formed by electrolysis of	Dilute NaCl Solution	Fused NaCl	Concentrated NaCl Solution	NaCl Solution
27	The covalent radius of Hydrogen is	37.6pm	37.7pm	37.7nm	37.6nm
28	The minimum amount of energy required to remove an electron from its gaseous atom to form an ion is known as	electron affinity	ionization energy	electronegativity	potential energy
29	The sum of cationic and anionic radius in a crystal lattice is equal to	inter-titan distance R	inter ionic distance R	inter- cationic distance R+	inter-anionic distance R-
30	Which of the following is NOT an alkali metal	Li	Fr	H	Cs
31	Which oxidation state is shown by alkali metals	-1	-2	1	2
32	Which elements form alloys	Alkali metals	Alkaline earth metals	Transitions metals	Halogens
33	Transition elements have properties of _____?	Metals	None metals	Between both metals and nonmetals	None of these
34	The species which donates electrons to the central metal atom in the coordination sphere is called	Anion	Cation	The ligand is positively charged	Acid
35	Compounds with same molecular formula but different structural formula and properties are called:	Isomers	Organic compounds	Monomers	Tautomers
36	What is the origin of organic compounds?	Plants	Animals	Anything except living organisms	Both a) and B)
37	Isomerism becomes possible when:	There more than two carbon atoms	There more than three carbon atoms	There more than three hydrogen atoms	There more than three in the atoms in the molecule
38	the catalytic oxidation of alkane is used	as fuel	in organic synthesis	prepare higher fatty acids	all of these
39	The stability of benzene is due to	cyclic structure	that it gives addition reaction	delocalization of pi electrons	none
40	Which of the following belongs to the class of saturated hydrocarbons	Propene	Butane	Isobutylene	Ethyne
41	Victor Grignard was awarded a Nobel Prize in	Physics	Chemistry	Mathematics	Quantum chemistry
42	In primary alkyl halide, halogen atom is attached to a carbon atom which is	Attached to one or no carbon	Attached to two or no carbon	Attached to one or two carbons	Attached to one or three carbons
43	Chloroethane is an example of	Primary alkyl halide	Secondary alkyl halide	Tertiary alkyl halide	None of the above
44	In cannizzaro's reaction, Benzyl alcohol is obtained from	benzaldehyde	benzene	picric acid	benzyl chloride
45	The compounds which are formed by the replacement of one of the H of water by a alkyl group are called as ___?	Ethers	Phenols	Alcohols	Carboxylic acids
46	The alcohols in which the carbon which is attach to the OH group is further attach with two carbon atoms is called as?	Primary alcohols	Secondary alcohols	Tertiary alcohols	None of these
47	Bulky ketones do not react with	Sodium bisulphite	HCl	Grignard reagent	HCN
48	If both alkyl groups attached to carbonyl in ketone are same then it is called as _____?	Mixed	Unsymmetrical	Symmetrical	None of these
49	In IUPAC nomenclature, aldehydes are named as _____?	Alkanol	Alkanal	Alkanone	Alkaldehyde
50	Which of the following is correct about IUPAC naming of carboxylic acid?	In the parent name COOH position is not mentioned	COOH is written as substituent and position is mentioned	COOH is given 1st position in all carboxylic acid	Both a and c
51	Carboxylic acids are produced by the oxidation of _____?	Alcohol	Aldehyde	Ketone	All of these
52	The compounds which have -CN group are called as _____?	Aldehydes	Imines	Amines	Nitriles
53	Amino acids in proteins are held together by:	Peptide bond	Phosphodiester linkage	H-bonding	Ether linkage
54	What is the Optimum temperature for working of enzyme in human body?	40°C	35°C	37°C	32°C
55	After digestion proteins change into:	Amino acids	Starch	Glycogen	Lipids
56	The name protein is derived from _____ word proteios meaning _____.	Greek, Important.	French, Prime Importance	Greek, Functional	Greek, Prime Importance

CHEMISTRY

ANSWERS

1. A

2. B

3. B

4. D

5. D

6. C

7. B

8. C

9. B

10. C

11. B

12. B

13. A

14. C

15. C

16. C

17. B

18. D

19. A

20. C

21. C

22. A

23. C

24. B

25. B

26. C

27. B

28. B

29. B

30. C

31. C

32. C

33. C

34. C

35. A

36. D

37. D

38. D

39. C

40. B

41. B

42. A

43. A

44. A

45. C

46. B

47. A

48. C

49. B

50. C

51. D

52. D

53. A

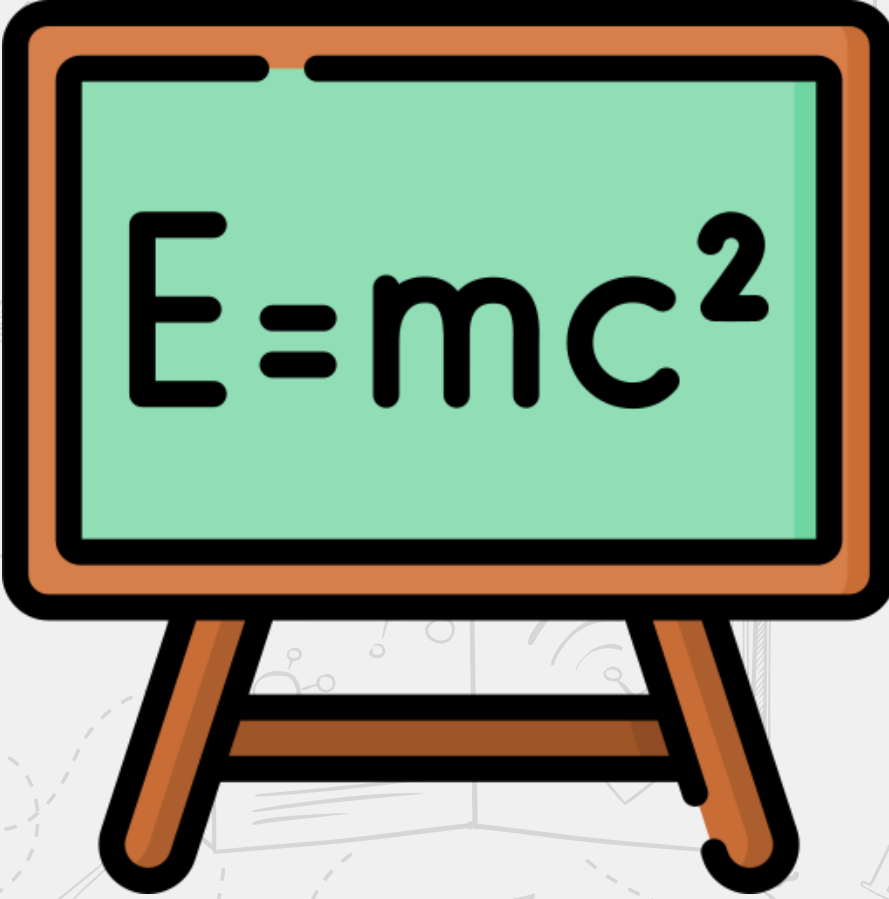
54. C

55. A

56. D

PHYSICS

56 MCQs


$$E=mc^2$$

S.#	Question	Answer Option (A)	Answer Option (B)	Answer Option (C)	Answer Option (D)
1	If a car moves from 15 m/s to 5 m/s in 10 sec then average acceleration is	1 m/s ²	2m/s ²	5 m/s ²	10m/s ²
2	If a car starts from rest and reaches 20 m/s velocity in 10 m distance then acceleration is	20 m/s ²	10 m/s ²	5 m/s ²	2m/s ²
3	instantaneous velocity is defined as	dx/dt	$\Delta x/\Delta t$	$\Delta x \cdot \Delta t$	$\Delta v/\Delta t$
4	For a straight trajectory of a particle instantaneous velocity is	2*(average velocity)	average velocity	zero	not enough info
5	instantaneous velocity is	always positive	always negative	positive and negative	not enough info
6	Work done by the centripetal force on a body moving in circle is zero because	the body moves parallel to F	the body move opposite to F	the body move right angle to F	centripetal and centrifugal balance each other
7	Which is the unit of energy	joule	erg	unit(Kwh)	all of these
8	A particle having mass m and momentum p, kinetic energy of the particle is given by	p ² /m	p/m	p ² /(2m)	m ² /p
9	A spring of force constant 800 N/m has an extension of 5 cm, the work don in extending it from 5 cm to 15 cm	16 J	8 J	32 J	24 J
10	A spring gun has a force constant 1000 N/m. When a ball of 10 gm is shot from this gun, its spring is compressed by 10 cm. Find the maximum horizontal distance that can be achieved by the ball : (g = 10 m/s ²)	20m	25m	50m	100m
11	What is 1 radian in degrees approximately	57.3 degrees	360 degrees	π degrees	π^2 degrees
12	The angular speed for the daily rotation of Earth in rad s ⁻¹ is?	2 π	π	4 π	7.3 x 10 ⁻⁵ rad s ⁻¹
13	Angular displacement is zero when	angle =0	r=0	r=0	both b and c
14	Which quantity is a scalar quantity	angular displacement	angular velocity	angular acceleration	none of these
15	Angular velocity cannot be	zero	negative	infinite	linear
16	The stationary waves can be set up on the string only with the frequencies of harmonic series determined by:	the tension, length and mass per unit length of the string	the tension and mass per unit length of the string only	the length and mass per unit length of the string only	the tension and length of the string only
17	The frequency of a string on a musical instrument can be changed either by:	varying the diameter or by changing the length	varying the tension or by changing the thickness	varying the tension or by changing the length	varying the thickness or by changing the length
18	A standing-wave pattern is formed when the length of the string is:	an odd multiple of quarter wavelength	an integral multiple of quarter wavelength	an integral multiple of wavelength	an integral multiple of half wavelength
19	A stationary wave is setup on a string of length 10 cm. Four loops are formed. what is the distance between two consecutive crests?	4.5 cm	5 cm	2.5 cm	1.25 cm
20	If a pipe is closed at one end and open at the other, the closed end is a:	antinode	node	rarefaction	crest
21	System in thermodynamics is disconnected with surrounding by	Pressure	Universe	Boundary	Temperature
22	For an ideal gas heated under constant pressure the % of heat utilised in work is	0.4	0.5	0.3	0.2
23	Two samples A and B of a gas initial at same pressure compressed from V to V/2 (A isothermally and isobarically) What is the pressure in A	equal to B	greater than B	less than B	Twice of pressure at B
24	When a ideal monatomic gas is heated at constant pressure fraction of energy supplied which increases internal energy of gas is	44232	44260	44201	44259
25	A proton has mass m and charge q. It is suspended in electric and gravitational field. What is the magnitude of electric field?	E = m*g / q	E = m*g / q*v	E = m*g / q*v*B	E = q / m*g
26	What is the formula for Coulomb's law?	F=Kq1q2/r ²	F=2Kq1q2/r ³	F=Kq1/r	F=Kq1/q2
27	The change in potential energy per unit charge between two points in an electric field is called	Potential difference	Absolute Potential	Electric intensity	Permittivity
28	Series combination of two capacitor C1 and C2 is	C1+ C2	(C1)(C2)	(C1C2)/(C1+C2)	C1/C2
29	The fractional change in resistivity per kelvin	coefficient in resistance	coefficient of resistivity	resistance	None of these
30	In case of source of charge at a point, the total charge flowing towards the point and the total charge flowing away from the point must be	equal	not equal	does not relate	none of these
31	The ratio of emf of two cells E1/E2 equals	L1/L2	1:2	L2/L1	2:1
32	With the help of Kirchhoff's Current Law (KCL) and Kirchhoff's Voltage Law (KVL), you can find equivalent _____ and _____ of different conductors.	current, frequency	current, voltage	resistance, current	resistance, voltage
33	Find the Lorentz force of a charge 2.5C having an electric field of 5 units and magnetic field of 7.25 units with a velocity 1.5m/s.	39.68	68.93	89.39	63.98
34	Magnetic Field lines move from _____	north to south	south to north	east to west	west to east
35	A square coil of side length 2 mm is placed in the x-y plane and in uniform magnetic field 0.1 T, find total flux through the coil	1.6 Wb	0.16 Wb	16 Wb	0 Wb
36	Strength of magnetic field is called	strength	flux	magnetic flux density	density
37	In order to enhance magnetic flux, the primary and secondary coils of the transformer are wound on	soft iron core	iron core	hard iron core	steel core
38	Transformer operates on	A.C	D.C	both	none of these
39	SI unit of inductance is	Henry	Farad	Maxwell	Weber
40	A cable 4 km long and of total resistance 1 ohm carries electric current from a generator producing 100kW at 10,000 Volts. The current in amperes in the cable is	10	10,000	1000	100,000
41	Transistors can be used as	half wave rectifier	full wave rectifier	both	none of these
42	electrons in the valence band of semiconductors are called	valence electrons	free electrons	fermi electrons	none of them
43	Pure semiconductors are called	intrinsic semiconductor	extrinsic semiconductor	electronic devices	none of them
44	Which of the following rectifier uses wheatstone bridge to rectify signal	half wave	full wave	bridge	All of the above
45	Electron microscope describes the _____ nature of particles which are electrons	particle	wave	both	none of these
46	Which of the following statements is incorrect about the photons	Momentum of photon h/λ	Rest mass of photon is zero	photon exert no pressure	Energy of photon is hv
47	In stationary waves	Strain is maximum at antinodes	Strain is minimum at nodes	Strain is maximum at node	Amplitude is same at all points
48	A particle performing SHM when its displacement is 3 cm, its acceleration is 12 cm S-2. It is vibrating with period	4 π Sec	3 π Sec	2 π Sec	π Sec
49	Molecular spectra are examples of	solar spectra	continuous spectra	band spectra	line spectra
50	As mass number increases, which of the following does not change	mass	density	volume	binding energy
51	If alpha, beta, and gamma rays carry the same momentum, which has the longest wavelength?	alpha rays	beta rays	gamma rays	all have same wavelength
52	The half life of radioactive element is	0.693λ	0.693/λ	λ/0.693	1/λ
53	An Ionic atom which is equivalent to hydrogen atom has wavelength equal to 1/4th of hydrogen lines is	He+	Li+	Ne+9	Na10+
54	When two electrons are removed from an atom the charge on atom becomes	2+	2-	0	4
55	If two neutrons hit together at slow speed they behave like	snooker balls	immediately comes to rest	fuse into each other	nothing will happen
56	Radiation exchange occurs in which medium	solid	liquid	gas	vacuum

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PHYSICS ANSWERS

1. A

2. A

3. A

4. B

5. A

6. C

7. D

8. C

9. B

10. D

11. A

12. D

13. A

14. D

15. D

16. B

17. B

18. D

19. C

20. B

21. C

22. A

23. B

24. -

25. A

26. A

27. A

28. C

29. B

30. B

31. A

32. C

33. A

34. A

35. -

36. C

37. A

38. A

39. A

40. A

41. D

42. A

43. A

44. C

45. B

46. A

47. C

48. D

49. C

50. B

51. D

52. B

53. A

54. A

55. A

56. D

LOGICAL REASONING

10 MCQs



S.#	Question	Answer Option (A)	Answer Option (B)	Answer Option (C)	Answer Option (D)
1	Which word does NOT belong with the others? The 'A' state government has chalked out a plan for the underdeveloped 'B' district where 66% of the funds will be placed in the hands of a committee of local representatives. Courses of action:	wing	fin	beak	rudder
2	I. The 'A' state government should decide guidelines and norms for the functioning of the committee. II. Other state government may follow similar plan if directed by the Central government.	If only I follows	If only II follows	If either I or II follows	If neither I nor II follows
3	The car dealer found that there was a tremendous response for the new XYZ's car booking with long queues of people complaining about the duration of business hours and arrangements. Courses of action: I. People should make their arrangement of lunch and snacks while going for car XYZ's booking and be ready to spend several hours. II. Arrangement should be made for more booking desks and increase business hours to serve more people in less time.	If only I follows	If only II follows	If either I or II follows	If neither I nor II follows
4	Statement: There is unprecedented increase in the number of young unemployed in comparison to the previous year. A large number of candidates submitted applications against an advertisement for the post of manager issued by a bank.	Statement I is the cause and statement II is its effect.	Statement II is the cause and statement I is its effect	Both the statements I and II are independent causes	Both the statements I and II are effects of independent causes
5	Statement: The police authority has recently caught a group of house breakers. The citizens group in the locality have started night vigil in the area.	Statement I is the cause and statement II is its effect.	Statement II is the cause and statement I is its effect	Both the statements I and II are independent causes	Both the statements I and II are effects of some common cause
6	Statement: All film stars are playback singers. All film directors are film stars. Conclusions: All film directors are playback singers. Some film stars are film directors.	Only conclusion I follows	Only conclusion II follows	Either I or II follows	Both I and II follow
7	Statement: All hill stations have a sun set point. X is a hill station. Conclusions: X has a sun set point. Places other than hill stations do not have sun set points.	Only conclusion I follows	Only conclusion II follows	Either I or II follows	Both I and II follow
8	Battery X lasts longer than Battery Y. Battery Y doesn't last as long as Battery Z. Battery Z lasts longer than Battery X. If the first two statements are true, the third statement is	True	FALSE	Uncertain	None of these
9	1 Choose which one is the different number from the following	125	131	130	138
10	2 look at this series 7,10,8,11,9,12. Which number you think will be next?	10	12	13	7

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LOGICAL REASONING ANSWERS

1. C

2. A

3. B

4. A

5. A

6. D

7. A

8. C

9. B

10. A